

PCT

RAW SEQUENCE LISTING DATE: 08/26/2004 PATENT APPLICATION: US/10/505,376 TIME: 16:33:01

Input Set : A:\8201_028-304.ST25.txt
Output Set: N:\CRF4\08262004\J505376.raw

5 <110 > APPLICANT: Biogen, Inc. Kalled, Susan Reid, Hugh 13 <120> TITLE OF INVENTION: Use of BCMA as an Immunoregulatory Agent 17 <130> FILE REFERENCE: 08201.0028-00304 C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/505,376 C--> 21 <141> CURRENT FILING DATE: 2004-08-20 21 <150> PRIOR APPLICATION NUMBER: 60/358,427 23 <151> PRIOR FILING DATE: 2002-02-21 27 <160> NUMBER OF SEQ ID NOS: 5 31 <170> SOFTWARE: PatentIn version 3.1 35 <210> SEQ ID NO: 1 37 <211> LENGTH: 184 39 <212> TYPE: PRT 41 <213> ORGANISM: Homo sapiens 45 <400> SEQUENCE: 1 47 Met Leu Gln Met Ala Gly Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser 48 1 51 Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr 55 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser 40 59 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu 63 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile 70 67 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu 71 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu 100 105 75 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys 120 79 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe 80 140 83 Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys 150 155 87 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu 165 170 91 Ile Glu Lys Ser Ile Ser Ala Arg 92 180 95 <210> SEQ ID NO: 2 97 <211> LENGTH: 555 99 <212> TYPE: DNA

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110																180	
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116	aaca	attg	acc t	tggaa	aaaga	ag ca	aggad	ctggt	gat	gaaa	atta	ttt	ctcc	gag a	aggc	ctcgag	360
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140					5					10					15		
		Ser	Thr	Glv		Val	Thr	Met.	Leu		Met	Ala	Glv	Gln		Ser	
144	0-1			20					25				1	30	-1-		
	Gln	Asn	Glu		Phe	Asp	Ser	Leu		His	Ala	Cvs	Ile		Cvs	Gln	
148	0		35	- , -				40				0,70	45		-1-		
	Len	Δra	Cys	Ser	Ser	Asn	Thr	-	Pro	Len	Thr	Cvs		Ara	Tvr	Cvs	
152	шец	50	Cyb	501	501	11011	55					60	0	5	-1-	0,0	
	Δen		Ser	Val	Thr	Δen		Val	Lvc	Glv	Val		Lvs	Thr	His	Thr	
156		1114	501	• • • • • • • • • • • • • • • • • • • •		70	001	•	_,,	-	75	1101	_,.			80	
		Pro	Pro	Cve	Pro		Pro	Glu	T.e.11	T.e.11		Glv	Pro	Ser	Val		
160	Cys	110	110	Cyb	85	niu	110	Olu	шси	90	017	013	110	501	95		
	T.011	Dhe	Pro	Dro		Pro	Taye	Δen	Thr		Met	Tle	Ser	Δrσ		Pro	
164	пси	TILC	110	100	шуз	110	цуб	nsp	105	ncu	ricc	110	001	110		110	
	Glu	Val	Thr		Wa 1	Val	Val	Δen		Ser	His	Glu	Asn		Glu	Val	
168	014	Vul	115	Cyb	• • •	•41	V 41	120	• • •	001	*****	014	125		0_0		
	Lvs	Phe	Asn	Trn	Tur	Val	Asp		Val	Glu	Val	His		Δla	Lvs	Thr	
172	טעט	130	ASII	111	- 7 -	Val	135	OI,	vai	014	VUI	140	21011	1114	_, _	****	
	Lvc		Arg	Glu	Glu	Gln		Δen	Ser	Thr	Tur		Val	Val	Ser	Val	
	145	110	nr 9	Olu	Oru	150	- y -	Hom	DÇI	1111	155	****9	val	vul	001	160	
		Thr	Val	T.011	Hic		Aen	Trn	T.e.11	Δen		Laze	Glu	Tur	Lvs		
180	шец	1111	Vai	Бец	165	GIII	veh	пр	пец	170	Gry	цуз	GIU	- y -	175	Cyb	
	Tvc	Wal	Ser	λcn		772	T 011	Dro	λla		Tla	Clu	Lare	Thr		Sar	
	пуъ	vai	SEI	180	пуъ	Ala	neu	PLO	185	PIO	116	GIU	цуъ	190	116	Ser	
184	T	77.	T		61 n	Dro	7~~	C1		C1 n	17-1	Ф	Th∽		Dro	Dro	
	_	ATG	Lys	GIA	GIII	PLO	Αrg	200	PIO	GIII	val	TAT	205	ьeu	FIO	FIO	
188		7	195	C1	T 011	Th∽	T 1.00		G1 ~	17-1	e~~	Low		Cvc	Lon	₹72 T	
	ser	_	Asp	GIU	ьeu	TIII	_	HSII	GIII	vaı	Ser		TIIL	Cys	пец	vaı	
192	T	210	Dl	П»	D	C	215	T 7 -	- רת	77~ 7	~1.	220	~1	C.~	7 ~~	C1	
	_	сту	Phe	ıyr	PLO		Asp	тте	AId	val		ιτb	GIU	DGT.	Wall		
	225	D	~ 1	71	7	230	T	ml	ար	D	235	37 - 7	T	7. ~~~	C.~~	240	
	GIN	Pro	Glu	Asn		Tyr	гÃ2	ınr	ınr		Pro	val	ьeu	Asp		Asp	
200					245					250					255		

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203 Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp
207 Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His
208
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212
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217 <211> LENGTH: 909
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                                                                          120
230 ttgcatgctt gcataccttg tcaacttcga tgttcttcta atactcctcc tctaacatgt
                                                                          180
232 cagcgttatt gtaatgcaag tgtgaccaat tcagtgaaag gagtcgacaa aactcacaca
                                                                          240
234 tgcccaccgt gcccagcacc tgaactcctg gggggaccgt cagtcttcct cttcccccca
                                                                          300
236 aaacccaagg acaccctcat gatctcccgg acccctgagg tcacatgcgt ggtggtggac
                                                                          360
238 gtgagccacg aagaccctga ggtcaagttc aactggtacg tggacggcgt ggaggtgcat
                                                                          420
240 aatgccaaga caaagccgcg ggaggagcag tacaacagca cgtaccgtgt ggtcagcgtc
                                                                          480
242 ctcaccgtcc tgcaccagga ctggctgaat ggcaaggagt acaagtgcaa ggtctccaac
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246 ccacaggtgt acaccetgce eccatecegg gatgagetga ccaagaacca ggtcageetg
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248 acctgcctgg tcaaaggett ctatcccagc gacatcgccg tggagtggga gagcaatggg
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250 cagceggaga acaactacaa gaccaegect ecegtgttgg acteegacgg eteettette
                                                                          780
252 ctctacagca agctcaccgt ggacaagagc aggtggcagc aggggaacgt cttctcatgc
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265 <213> ORGANISM: Mouse
269 <400> SEQUENCE: 5
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275 Tyr Arg Asn Gly Lys
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20

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VERIFICATION SUMMARY

DATE: 08/26/2004 TIME: 16:33:02

PATENT APPLICATION: US/10/505,376

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L:21 M:270 C: Current Application Number differs, Replaced Current Application No

L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date